

What is claimed is:

1. A plate cooler for fluids, comprising:  
a bottom plate;  
5 a cover plate;  
a plurality of pairs of spaced plates provided with superposed apertures;  
side plates and end plates secured at marginal sections of the spaced  
paired plates to form fluid channels;  
lateral plates of predetermined height positioned between adjacent pairs  
10 of spaced plates and provided with openings aligned with the apertures; and  
cooling fins of a height substantially identical to the predetermined height  
disposed between adjacent pairs of spaced paired plates and laterally of the  
lateral plates.
- 15 2. The plate cooler of claim 1, wherein the spaced paired plates are  
positioned substantially parallel to each other.
3. The plate cooler of claim 2, wherein the pairs of spaced plates are  
positioned substantially parallel to each other.  
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4. The plate cooler of claim 3, wherein the cover plate, the bottom plate and  
the pairs of spaced plates are positioned in parallel to each other.
6. The plate cooler of claim 1, wherein the cover plate, the bottom plate, the  
25 pairs of spaced plates and the lateral plates are made of one of aluminum and  
an aluminum alloy.
7. The plate cooler of claim 6, wherein the cover plate, the bottom plate, the  
pairs of spaced plates and the lateral plates are vacuum welded together.  
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